**Alec Vis**

Mission Viejo, California

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**EDUCATION**

**Bachelor of Science in** **Biomedical Engineering**, GPA 3.7 June 2020

University of California, Irvine

**WORK EXPERIENCE**

**Applications Engineer**

Sconce, Mission Viejo, California July 2019 – Current

* Installed Windchill PDMLink on test environments and developed System Admin content
* Guided companies and engineers to the right technology for their needs
* Consulted engineers on design techniques and best practices for simulations and designs
* Taught courses on the suite of PTC products to engineers across the country
* Developed Scripts to Automate routine tasks for myself and Management

**Co-op in Materials Department**

Abbott Laboratories, Sylmar, California January 2018 – June 2018

* Ran Various analysis and characterization experiments on several parts
* Ran various studies for welding engineering to improve the welding and rework process
* Ran a Study to determine if a cleaning procedure was damaging electrical insulation
* Helped develop a new manufacturing process to reduce the cost of the product

**PROJECT EXPERIENCE**

**Senior Design Project**

University of California Irvine, California September 2019 – June 2020

* Developed a platform to record pressure drops in a anesthesia machine
* Programmed and set up the pressure sensor to record these pressure drops
* Developed test method with limited supplies and access to a lab

**PROFESSIONAL AND NON-PROFESSIONAL AFFLICATIONS**

* President of Biomedical Engineering Honor Society April 2017 – January 2018
* Member of Tau Beta Pi December 2017 – Present

**COMPUTER SKILLS**

* Advanced with Creo and Solidworks
* Proficient with Python, Power Shell, MATLAB, and LabVIEW

**LABORATORY SKILLS**

* Scanning electron microscope (SEM) & Energy Dispersive X-Ray Spectroscopy (EDS)
* Differential scanning calorimetry (DSC)
* Electrochemical Impedance Spectroscopy & Metal Etching on Titanium parts